New Product Summary

Launch Date – 1st February 2008
Under NDA Until – 9th January 2008

Epson EMP 400We

Secure , Short Throw, WXGA projector for education

The new Epson EMP-400We LCD projector combines enhanced anti theft security features, a 3 year on site warranty and superb short throw, capable of projecting a 60inch, 16:10 image from only 73cm.

Enhanced security features

If stolen, the EMP-400We becomes useless. It requires a password to be entered whenever it has been disconnected from mains power and it can only be operated with the remote control - there isn't even an on/off button on the projector. Just keep the password confidential and the remote control in a secure place when the projector is not in use - this also prevents unauthorised use.

To make sure potential thieves know that there is no point stealing your EMP-400We, there's a bold security warning message on the projector case and it's supplied with warning window stickers and posters.

The EMP-400We displays a further warning message each time it is powered on, and whenever it has no input to display. The message says that the projector is probably stolen if it is not being used in an educational establishment, but you can easily customise it with the name and contact details of your organisation – if you have the password.

Wide Screen WXGA Resolution

The WXGA resolution of the EMP-400W delivers clear, sharp images regardless of whether you are using a 4:3, 16:9 or 16:10 aspect ratio. Perfect for use with modern laptops, screens and interactive whiteboards.

Mobile or fixed solutions

Easily moved from room to room, the Epson EMP-400W can be easily positioned close to the screen on the end of a table or permanently fixed to walls or ceilings in classrooms, training rooms and meeting rooms.

Easy remote management

When the EMP-400W is connected to a network, Epson EMP Monitor allows you to remotely monitor the status, turn the projector on or off and even switch sources. Email alerts can be sent to warn of any potential problems and timers.

Multi-media and audio capability

The Epson EMP-400W accepts input data from two PCs, allowing you to conveniently switch between them. The built-in 10W speaker offers excellent audio support, and optional cables are available to connect to a range of other sources, such as DVD players and digital cameras.

E-TORL technology

Our patented E-TORL lamp ensures clear visibility, even in light rooms giving increased brightness for lower power consumption than standard lamps. Smaller, brighter, more energy efficient, the E-TORL is tomorrow's lamp, today.

Versatile, affordable, compact - ideal for classrooms, seminars and training rooms

- Project a 60", WXGA image from only 73cm
- Bright images with 1800 ANSI lumens from an energy efficient, Epson exclusive E-TORL lamp
- Exceptional image quality through Epson's 3LCD technology
- Instant Off keeps you in control with no delays
- Enhanced security with password protection and security bar
- Monitor and control through direct network connection
- Internal 10W speaker for added audio capabilities

*in low brightness mode

Ordering Information

Description	EMP-400W LCD Projector
Part Number	V11H281T40
Barcode	8715946398082
Carton Dimensions	TBC
Carton Weight	net= 3.6kg; gross=TBC

* The last two letters may vary depending on the version. See the RRP list or Trade Price lists for correct part codes.

Errors and Omissions Excepted

Screen Size & Projection Distance

Use the Epson Projection Distance Calculator software available from www.epson.co.uk for distances and screen sizes not shown below.

Screen size [inch]	Projection distance					
	Wide			Tele		
	cm	inch	foot	cm	inch	foot
min 37				54	21	1.8
40				58	23	1.9
50	54	21	1.8	73	29	2.4
60	65	26	2.1	89	35	2.9
70	76	30	2.5	104	41	3.4
80	88	34	2.9	119	47	3.9
85	93	37	3.1			
90	99	39	3.2			
100	110	43	3.6			
max 110	122	48	4.0			

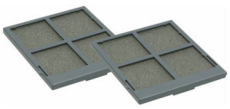
Accessories

(model code) **order code**

Consumables

Spare Lamp (ELPLP42)
V13H010L42

Air Filter Set (ELPAF13)
V13H134A13

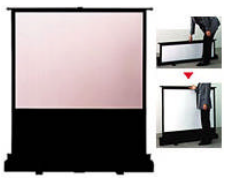


Screens

50" Portable Screen (ELPSC06)
V12H002S06

60" Portable Screen (ELPSC07)
V12H002S07

80" Portable Screen (ELPSC08)
V12H002S08



Mountings

Ceiling Plate (ELPFC03)
Required if using a ceiling pipe.
V12H003C03

Ceiling Pipe (silver) 370mm (ELPFP04)
V12H003P04

Ceiling Pipe (silver) 570mm (ELPFP05)
V12H003P05

Ceiling Pipe (silver) 770mm (ELPFP06)
V12H003P06

Ceiling Mount (ELPMB18)
Connects to the projector and either directly to the ceiling, or to a ceiling pipe.
V12H003B18

Cables

VGA Computer Cable HD-15 to HD-15 1.8m (ELPKC02)
V12H005C02

VGA Computer Cable HD-15 to HD-15 3.0m (ELPKC09)
V12H005C09

VGA Computer Cable HD-15 to HD-15 20m (ELPKC10)
V12H005C10

Component Video Cable (ELPKC19)
V12H005C19

HD-TV Cable (ELPKC22)
V12H005C22

What's in the Box

Projector
with Lens Cover

Remote Control

2 x AAA alkali batteries
for the remote control

Power Cable
3.0m cable

Computer Cable
Mini D-Sub 15-pin/mini D-Sub 15-pin, 1.8 m (6 ft.)
Use when projecting images from a computer

Projector Security Pack
Security instruction sheet, entering/changing the password, customising the security warning screen.
Two window stickers fix to inside of windows - face out
Two posters for notice boards

Read This First Booklet
Explains the contents of the box and which manuals the user should refer to.

Setup Guide
Contains information on basic operations for preparing the projector before use (setup and connecting video equipment or a computer) and for starting projection.

Document CD-ROM
Contains information on common and useful functions, configuration, troubleshooting, and maintenance.

Safety Instructions / World Wide Warranty Terms

Specifications
Epson EMP-400We

MODEL			**EMP-400W**
Projection System			RGB liquid crystal shutter projection system
Projection Method			Front / Rear / Ceiling mount
Specification of Main Parts	LCD	Size	0.56-inch with MLA (D7)
		Driving Method	Poly-silicon TFT active matrix
		Pixel Number	1,024,000 dots (1280x800) x3
		Native Resolution	WXGA
		Aspect Ratio	16:10
		Pixel Arrangement	Cross stripe
		Refresh Rate	50 Hz - 60 Hz
	Projection Lens	Type	Digital zoom / Manual focus
		F-Number	1.80
		Focal Length	6.48 mm (Projected distance 0.97m)
		Zoom Ratio	No Optical Zoom, Digital Zoom (1.0-1.35)
		Lens Cover	Yes
	Lamp	Type	170 W UHE (E-TORL)
		Life	3000 hours (High bright) / 4000 hours (Low bright)
	Optical System		Dichroic Mirror Separation & Prism combine Method
Screen Size (Projected Distance)			50" to 110" [0.54 to 1.22 m] Standard size: 88.3" screen 0.97 m
Offset			10:-1.5
Brightness	High Brightness Mode		1800 ANSI lumens (Colour mode: Game)
	Low Brightness Mode		1420 ANSI lumens (Default) (Colour mode: Game)
Contrast			500:1 (Colour mode : Game)
Brightness Uniformity			Typ. 85%
Colour Reproduction			Full-colour (16.77 million colours)
Video Quality			Simple Interlace-Progressive conversion
Sound Output			10W Monaural
Control panel			Remote Control Only
Function			User logo, A/V mute, Freeze, E-Zoom, Help
Colour Mode			PC: Photo, Presentation1,Presentation2, Theatre, Game, sRGB, Blackboard, Text Video: Sports, Presentation1,Presentation2, Theatre, Game, sRGB, Blackboard, Text
Remote Control Infrared Receiver Position / Distance / Directivity			Front & rear (selectable), 6 m Right / Left : -30 to +30 degrees Upper / Lower : Front 0 to +60 degrees Rear -30 to +30 degrees
Effective Scanning Frequency Range (Analogue)	Pixel Clock		13.5 MHz to 162 MHz up to UXGA 60 Hz
	Horizontal		15 kHz to 92 kHz
	Vertical		50 Hz to 85 Hz
Adjustment Function	Projector / Remote Control		Brightness / Contrast / Tint / Saturation / Sharpness / Input signal / Sync / Tracking / Position / Colour temperature / Volume / etc.
	Foot Adjuster		Front-centre
	Tilt Angle		0 to 13 degrees
	Keystone Correction		Vertical : -15 to +15 degrees
	Auto Keystone Correction		N/A
	Source Search		Yes
	Auto Detection of RGB/Component		Yes
	Operation Panel Protected Function		Yes
	Sleep mode		Yes, (Default 10 mins)
	Password Protected Function (Security Function)		Yes, (Default) (Protection of User logo, Network)
Analogue RGB I/O	Display Performance	Native	1280×800 dots
	Input Signal	Signal Type	Separate signal
		Video Signal	Analogue (0.7 Vp-p, 75 ohm / Mac 0.714 Vp-p, 75 ohm)
		Sync. Signal	Separate (positive & negative, bi-polarity 2-5 Vp-p)/ Composite (positive & negative, bi-polarity 2-5 Vp-p)/ Sync-on-green (negative, 0.3 Vp-p)
		Audio Signal	500 mVrms / 47 k-ohm
	Input Terminal	Video	D-sub 15pin x 2 Blue moulding
		Audio	Stereo mini-jack x 2
	Output Signal	Video Signal	Analogue (0.7 Vp-p, 75 ohm / Mac 0.714 Vp-p, 75 ohm)
		Sync. Signal	Separate (positive & negative,TTL) / Composite (positive & negative,TTL) / Sync. on green (negative 0.2-0.4 Vp-p)
	Output Terminal	Video	D-sub 15pin x 1 Black moulding (Output signal : Computer * only)
		Audio	Stereo mini-jack
Video I/O	Display Performance		NTSC: 560 lines, PAL: 560 lines
	Input Signal	Video Standard	NTSC / NTSC4.43 / PAL / M-PAL / N-PAL / PAL60 / SECAM
		Video Signal	Composite Video (1.0 Vp-p / Sync.negative, 75 ohm) /S-Video (Luminous 0.714 Vp-p, Chrominous 0.286 Vp-p, 75 ohm) /Component Video (Analogue Y level 0.7 V, 75 ohm / Cr Cb level+/-0.35V, 75 ohm / sync.negative 0.3 V or 3-state +/-0.3 V on Y) /RGB Video (0.7 V
		Audio Signal	500 mVrms / 47 k-ohm
	Input Terminal	Video	Composite Video: RCA (Yellow) x 1
			S-Video: Mini DIN
			Component Video: D-sub 15pin Blue moulding (in common with Analogue RGB connector)
			RGB Video: D-sub 15pin Blue moulding (in common with Analogue RGB connector)
		Audio	RCA x 1 (White/Red)
Control I/O	USB I/O	I/O Terminal	N/A
		I/O Speed	N/A
	Serial I/O	I/O Terminal	D-sub 9pin x 1
		I/O Signal	RS-232C
	Network Interface		LAN (RJ45) x 1
Operating Temperature			5 °C to 35 °C <41 °F to 95 °F> (20%-80% Humidity)Thermal shut down > 45 °C
Operating Altitude			0 m to 2286 m<0 ft to 7500 ft> (over 1500 m / 4,921 ft :with High altitude mode)
Direct Power On			Yes

Direct Power Off			Yes
Start-up Period			about 5 seconds warm-up period: 30 seconds
Cool-down Period			Instant off
Exhaust Direction			Side
Theft Proof	Padlock & Security Cable Hole		Yes
	Kensington Lock		Yes
Power Supply Voltage			100 - 240 V AC ±10%, 50/60 Hz
Power Consumption	230V Area (Europe, etc)	Lamp On	236 W
		Standby (Network On)	6.4 W
		Standby (Network Off)	5.5 W
Dimension	Exclude Feet (D x W x H)		258 x 327 x 95
	Maximum Dimension (D x W x H)		272 x 327 x 157
Weight			Approx. 7.9 • bs. / 3.6kg
Fan Noise	High Brightness Mode		35 dB
	Low Brightness Mode		28 dB
Compatible Standard	Safety	Europe	IEC 60950-1 1st edition (CE Marking)
	EMC	CE(Europe)	EMC directive **(2004/108/EC)**
	Environmental Protection	CE(Europe)	Dioxide regulation
		All countries	Recycling regulation
Supplied Accessories	Power Cable		3m
	Computer Cable		1.8 m D-sub 15pin (Male) - D-sub 15pin(Male)
	Remote Control		Compact type
	Battery		Manganese dry cell ×2
	Bundled Software		EPSON Projector Software (CD-ROM)
	Password Protect Sticker		Yes
	User's Manual Set		Yes
	UK warranty card		Yes
	Security pack		Yes
Optional Accessories	Spare Lamp		ELPLP42
	Air Filter Set		ELPAF13
	50" Portable Roll Screen		ELPSC06
	60" Portable Roll Screen		ELPSC07
	80" Portable Roll Screen		ELPSC08
	100 Type Screen		ELPSC10
	Computer Cable	HD15 / HD15, 1.8 m	ELPKC02
	Computer Cable	HD15 / HD15, 3.0 m	ELPKC09
	Computer Cable	HD15 / HD15, 20.0 m	ELPKC10
	Component Video Cable	HD15 / 3RCA (male), 3.0 m	ELPKC19
	HD-TV Cable	HD15 / D, 3.0 m	ELPKC22
	Ceiling Mount	Silver colour	ELPMB18
	Ceiling Plate	For Hanging Ceiling Mount with Pipes. Silver colour	ELPFC03
	Pipe 370mm	Silver colour	ELPFP04
	Pipe 570mm	Silver colour	ELPFP05
	Pipe 770mm	Silver colour	ELPFP06
Easy MP Part	Function		ESC/VP.net
			E-mail notification
			SNMP
			Web control
			PJ-Link
			Duet
	Software		EMP Monitor (for Windows)